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1. SCOPE OF WORK

This project includes the construction of bike camping facilities at two separate State Parks. Improvements to be installed include picnic shelters, tent camping pads, bike racks, compartmentalized food storage lockers, fire rings, trash receptacles, water supply and electrical supply with receptacles.

2. PROJECT MEETINGS

<u>Pre-Construction Conference</u>. After the Contract has been awarded, but before the start of construction, a pre-construction conference will be held at a time and place mutually agreed to by the parties. The conference shall be attended by the following: the Contractor and his superintendent; the principal subcontractors; representatives of principal suppliers and manufacturers, as appropriate; the Engineers and his construction observer; representatives of the Owner and others as appropriate.

Unless previously submitted, the Contractor shall bring the following submittals to the conference: list of proposed Subcontractors; proposed construction schedule; schedule for submitting shop drawings and other submittals; schedule procurement dates; construction technique submittal forms (as applicable); preliminary payment schedule; and tentative schedule of values. Work shall not start prior to the Engineer's receipt of these submittals. The Engineer will preside at the conference and will arrange for keeping the minutes and distributing copies of the minutes to all persons attending the meeting.

3. UTILITIES AND BARRIERS

<u>Notification</u>. The Contractor shall contact the one call locate number in advance of performing any excavation work on the site to obtain utility locates over the entire area to be impacted by construction of the project. The Contractor shall immediately notify the Engineer of the

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discovery of any utilities that are in conflict with the work that were not previously identified in the plans.

<u>Identification</u>. All utilities that may conflict with the work shall be the Contractor' responsibility to locate before any excavation is performed. Field markings provided by the utilities shall be preserved by the Contractor until actual excavation commences. All utility locations on the Drawings should be considered approximate and should be verified in the field by the Contractor. The Contractor shall also be responsible for locating all utilities that are not located on the Drawings.

<u>Temporary Utilities</u>. The Contractor shall provide all temporary electrical, lighting, telephone, heating, cooling, ventilating, water, sanitary, first aid, fire protection, and other utilities and services necessary for the performance of the work. All fees, charges, and other costs associated therewith shall be paid for by the Contractor.

<u>Conflicts with Existing Utilities</u>. For any utilities shown on the plans which are damaged or require temporary support to allow performance of the work, the Contractor shall contact the utility's owner and make all arrangements and pay all costs associated with the repair and/or temporary support of the utility. The Contractor shall comply with all requirements of the utility's owner.

The Contractor is responsible for the repair of any utilities that were properly marked by the utility locator and damaged by the Contractor, whether they are shown on the plans or not.

<u>Barriers</u>. The Contractor shall temporarily remove all fences, barricades, minor structures, and other obstructions that interfere with the prosecution of the work. Removal shall not extend beyond designated construction limits or right-of-way without first obtaining written authorization from the owner of the barrier.

Fences and barricades used for the confinement or exclusion of livestock, animals, or persons shall be replaced at the end of each work day to the extent necessary to perform the restrictive intent of the barrier.

Unless otherwise directed by the Engineer or indicated on the Drawings, all barriers so removed shall be replaced following the completion of the work to as good or better condition than existed prior to the start of work. The requirement applies to small trees and decorative shrubs as well as fences, barricades, and minor structures.

The Contractor shall replace at his own expense all barriers damaged or destroyed.

4. REPAIR AND REPLACEMENT QUALITY

<u>General</u>. Items requiring repair or replacement due to damage or removal or otherwise necessitated in the course of pursuance of the work and which are not otherwise specified herein, shall be repaired or replaced to the following levels of quality.

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<u>Paved and Gravel Roads, Driveways, and Sidewalks</u>. Repair or replacement shall be to a thickness and grade matching the existing condition. Quality of materials and methods shall comply with respective sections of the current edition of the Montana Public Works Standard Specifications.

<u>Water and Sewer Main and Services</u>. Repair or replacement shall be in a manner consistent with the existing condition using materials conforming to the Uniform Plumbing Code, the current editions of the DEQ 1 and DEQ 2 circulars, American Water Works Association Standard Specifications, and the requirements of the Montana Department of Environmental Quality. Construction shall also comply with the current edition of the Montana Public Works Standard Specifications. Repair or replacement will not be allowed with materials like the existing installation if they do not conform to the above-referenced standards.

<u>Electrical, Telephone, Cable TV, Natural Gas, and Petroleum Lines</u>. Repair or replacement shall be to the standards required by the utility owner and at the utility owner's option may be performed by the utility owner with full cost assessed to the Contractor.

<u>Fences</u>. All fences adjacent to any work site are to be maintained to the satisfaction of the abutting property owners. The Contractor shall notify the landowners of the need to temporarily removed or relocate fences for access to the work and shall coordinate such activities with the respective landowners in regards to removal, relocation, and restoration of fences prior to commencing work.

Any fence removed or destroyed during the course of the Contract shall be reinstalled or reconstructed in like kind at no cost to the Owner or the landowner. The cost for this work shall be considered incidental and no additional compensation will be allowed.

Other Items. Repair or replacement of other items not covered by the preceding shall be to the standards required by the owner of the item and at the owner's option may be performed by the owner of the item with full cost assessed to the Contractor.

<u>Decisions Regarding Repair Versus Replacement</u>. The decision of repair versus replacement of an affected item shall be at the discretion of the Engineer upon consultation with the owner of the item. The decision shall be based on a determination of whether repaired quality can equal the quality of a replacement installation. The Engineer's authority shall be final in this regard.

<u>Limits of Repair and Replacement</u>. The limits of areas to be repaired or replaced shall be determined by the Engineer in the field based on the extent of damage or removal sustained. The determination shall be based on insuring that all damaged or removed portions of the existing installation are fully restored. The authority of the Engineer shall be final in this regard. All work effects outside limits as described in these Contract Documents are subject to repair and replacement quality as described herein.

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Repair by Party Owning or Maintaining Item. The party owning or maintaining the item under consideration shall have the exclusive right to undertake repair or replacement themselves and charge the Contractor for full costs incurred or to direct and supervise the Contractor to repair or replace the item to their standard of quality. The authority of the owner of the item shall be final in this regard.

5. GENERAL CONSTRUCTION REQUIREMENTS

Quality Assurance. The Engineer will monitor the construction of work covered by this section to determine if the work is being performed in accordance with the contract requirements. The Engineer does not have the authority or the means to control the Contractor's methods of construction. It is, therefore, the Contractor' responsibility to utilize all methods, equipment, manpower, and other means necessary to assure that the work is installed in compliance with the Drawings and Specifications, and laws and regulations applicable to the work. All buried work items shall be installed in the presence of the Engineer or may not be considered for payment.

<u>Grade and Alignment</u>. The Contractor shall provide all construction staking as required to define the locations of the improvements to be installed under this contract.

<u>Tolerances</u>. Construction tolerances for the work shall be as outlined in the Technical Specifications.

Construction Limits. Construct activities shall be limited to area no more than 40-feet from the edge of excavation and embankment, or any other improvements shown on the plans. Equipment access between roads and the construction site shall be limited to a single route to minimize disturbance. Disturbance and equipment access beyond these limits is not allowed without the written approval of both the Engineer and the owner of the affected property. If so approved, disturbance beyond construction limits shall meet all requirements imposed by the landowner; this includes existing roads used and/or improved as well as the construction of new access roads. Special construction, reclamation, or post-construction road ripping or other closure provisions required by the landowner on access roads beyond the construction limits shall be performed by the Contractor at no additional cost to the Owner.

Areas of Disturbance. Approved areas of disturbance are those areas disturbed by construction activities within the construction limits and along designated or approved access routes. Such areas shall be fine graded to blend with the existing terrain. Other areas that are disturbed by the Contractor's activities outside the limits noted above will be considered as site damage or unapproved areas of disturbance subject to the repair and replacement quality as specified herein. Such areas will also require the reclamation operations noted above and as specified herein, but costs of such work shall be borne by the Contractor. This includes areas selected by the Contractor outside the defined construction limits for mobilization, offices, equipment, or material storage. Stockpiling of gravel on-site is not allowed except within the parking lot at locations approved by the Owner.

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6. MATERIAL SOURCES

If additional material is needed for embankment or other materials, the Contractor will be responsible for placement and import from an off-site site location secured by the Contractor. The material shall be clean material, suitable for use as fill material and subject to the approval on the Engineer.

If excess material is generated during construction, the Contractor shall be responsible for export and disposal at an off-site location secured by the Contractor.

Haul routes shall be within the corridors of disturbance created by this project.

7. ENVIRONMENTAL PROTECTION

The Contractor shall comply with all laws and regulations of the United States Corps of Engineers and Environmental Protection Agency, Montana Department of Fish, Wildlife and Parks, Department of State Lands, Department of Environmental Quality, the Department of Natural Resources and Conservation, and with all other Federal, State, and Local laws and regulations controlling pollution of the environment. He shall take necessary precautions to prevent pollution of streams, lakes, ponds, and reservoirs with fuels, oils, bitumens, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

The Contractor also agrees to comply with the requirements of any permits obtained for the project by the Owner. These permits include but may not be limited to the permits listed under the Permits and Regulatory Requirements section. Copies of any of these permits are available upon request from the Engineer.

The Contractor shall be responsible for submitting and obtaining a temporary discharge permit from the Montana Department of Environmental Quality for the discharge of any water related to the construction of this project. A construction Dewatering Discharge Permit, issued by the Department of Environmental Quality, is required if water from construction is discharged to state waters. The Department of Environmental Quality must be contacted immediately if either contaminated soil or contaminated groundwater is encountered.

The Contractor shall be responsible for submitting and obtaining a storm water discharge permit from the Montana Department of Environment Quality. The cost of any erosion control measures or other work required by the permit shall be included in the bid and are considered incidental to the project.

8. WEED CONTROL

Prior to mobilizing equipment to the project site, the Contractor shall clean his equipment and vehicles to assure no weeds are imported. If there is an abnormal growth of noxious weeds on a

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project site after construction as determined by the Owner or local weed control authority, the Contractor may be responsible for weed control under the contract warranty.

9. PERMITS AND REGULATORY REQUIREMENTS

<u>Jurisdiction</u>. The performance of this work shall be under the jurisdiction of the following agencies, departments, and standards and compliance with the requirements thereof is required:

Federal Level: United States Law

State Level: Department of Environmental Quality; Department of Fish, Wildlife & Parks; Montana Department of Transportation; Montana Building Code Division; Uniform Building Code; Uniform Plumbing Code; Uniform Mechanical Code; National Electric Code; State annotations to these codes; and Montana State Law.

Local Level: Flathead County

<u>Contractor's Responsibility</u>. The Contractor shall familiarize himself with the requirements of all regulatory agencies pertaining to the performance of the work on the project.

The Contractor shall secure and pay for all permits, licenses, and fees necessary for the performance of the work.

The Contractor shall perform all work in accordance with the regulatory requirements. Any conflict between the Contract Documents and the regulatory requirements shall be brought to the immediate attention of the Engineer.

The following permits will be required for construction:

PermitEntity Providing PermitEntity Submitting PermitBuilding PermitState of MontanaContractor

10. SMOKE AND DUST CONTROL

The Contractor shall have informed himself of all applicable State Board of Health requirements and similar State or Federal requirements pertaining to control of or abatement of air pollution. The Contractor shall have provided or be prepared to provide such air pollution control measures as are required to comply with the minimum standards established by such agencies.

Hauling of material and transport of equipment along public roadways or through the towns and adjacent other structures and dwellings shall require effective dust abatement procedures. This also applies to the unloading and placement of spoils material at deposition sites. The Contractor shall utilize environmentally sound methods for watering and/or otherwise chemically treating

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dust-generating surfaces to comply with all applicable legal standards for airborne particulates. Prior to any work, the Contractor shall submit a written plan for dust abatement procedures identifying at a minimum the following:

- Times and nature of dust generating activity on public roads and at deposition sites.
- Nature and chemical characterization of dust abatement materials to be used.
- Method of application of dust abatement materials to be used.
- Time schedule for application of dust abatement materials to be used.
- Availability of equipment and operators for emergency application of dust abatement materials at other than scheduled times.

Watering for dust control is considered incidental to the Contract and shall be performed at no additional cost to the Owner.

11. SITE CLEAN UP

The Contractor shall be responsible for final clean up at the end of the project to a level satisfactory to the Owner. All construction debris, no matter how small, shall be collected and removed from the site. All wheel ruts shall be filled in and be leveled to match the adjacent grade and material. Re-seeding, re-sodding, or other re-surfacing may be necessary to repair any construction related impacts or damage.

All survey markings, stakes, temporary paint marks, flagging and other devices shall be removed regardless of who installed them. All excess pavement, concrete, gravel, soil, or other construction materials not intended for permanent use shall be removed.

All final slopes shall be dressed manually to remove woody debris, accumulated trash and oversized material. Any new slope or topsoil surfaces shall be hand raked to provide a uniform appearance. The Contractor shall dress all gravel, pavement and concrete edges to eliminate abrupt edges and provide a smooth transition. All construction related temporary sediment control devices shall be removed as soon as practical.

Unless specifically noted otherwise, all final cleanup work shall be incidental to other work items in the contract and no separate payment shall be made.

12. SANITARY FACILITIES

Sanitary facilities shall be provided and maintained by the Contractor who will comply with state and local regulations. The cost of furnishing, installing, and maintaining sanitary facilities shall be considered incidental to other items of work and no additional compensation will be allowed.

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13. INCORPORATION OF MONTANA PUBLIC WORKS SPECIFICATIONU

All work not specially described in the technical specifications of these bid documents shall be performed in compliance with the applicable technical specifications section found in Montana Public Works Ucpf ctf Specificationu"- Sixth Edition. "Crtki'4232. The Montana Public Works Specifications shall be modified to require the Contractor to provide compaction and concrete testing through an independent testing laboratory, not the Owner.

14. CONSTRUCTION SCHEDULING REQUIREMENTS

Recognizing the extended time required for building permit approval, manufacture, and delivery of the picnic shelters, the work for this project will be scheduled to occur in two phases.

The first phase will extend up to 30 calendar days and work is anticipated to be completed in May, 2016. This work will include tent pad construction, concrete slabs and foundations, water supply piping, water spigot, underground electrical conductor and campground equipment that can be delivered within this period of time. The site will be final graded, seeded, and equipment removed to allow its use during the interim period between the construction phases.

The second phase will begin within 5 days of the delivery of the premanufactured picnic shelter components and any remaining campground equipment. The work will include the installation of the picnic shelter and remaining equipment. In addition, touch up grading, cleanup, and reseeding of any areas disturbed by phase 2 construction activities shall also be preformed. This phase of the project will be limited to no more than 10 calendar days.

A work stop order will be granted between the phases.

15. MEASUREMENT AND PAYMENT

- A. **Scope:** This section describes the method of measurements and the basis of payment for all work shown on the drawings and required by the Contract Documents. This measurement and payment section shall take precedence over all other references to measurement and payment referenced in these specifications (with the exception of any addenda).
- B. **Bid Prices:** The bid price for each item of the Contract in the Bid Proposal shall cover all work shown on the drawings and be defined in the specifications and other contract documents. All costs in connection with the work including furnishing all materials, equipment, and tools, and performing all necessary labor and supervision to fully complete the work, shall be included in the lump sum or unit price bid items on the proposal. The amounts shown on the proposal shall be the contract price.

No item that is required by the Contract Documents for the proper and successful completion of the work will be paid for outside of or in addition to the prices submitted in the Bid Proposal. All work not specifically set forth as a pay item in

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the Bid Proposal shall be considered a subsidiary obligation of the Contractor and all cost in connection therewith shall be included in the prices bid.

Retainage at the amounts specified in the General Conditions will be withheld from each progress payment.

- C. **Estimated Quantities:** Any estimated quantities stipulated in the Bid Proposal or other Contract Documents are approximate and are to be used only as a basis for estimating probable cost of the work and for the purpose of comparing the bids submitted for the work.
- D. **Method of Measurement:** No measurement will be made on bid items representing a lump sum bid.

E. Basis of Payment:

1. Mobilization, Insurance & Bonding

• <u>General</u>: This bid item shall include the costs associated with mobilizing to the project site, insurance, bonding, permitting, and submittals.

• Work Included:

- All labor, tools, equipment, materials, royalties, and incidentals needed to complete the work as specified;
- Transport and set up all equipment, materials, and other items needed to complete the project;
- All permits, coordination, and compliance inspections required for the work;
- Insurance and bonding;
- Provide and install project sign;
- Prepare and provide submittals, construction schedule, and all other paperwork required by the contract documents prior to construction startup.
- <u>Measurement</u>: Measurement shall be one lump sum bid item.
- <u>Payment</u>: Payment shall be by the price bid for the lump sum bid item listed in the proposal.

2. Brush Removal

• <u>General</u>: This bid item shall include the removal of brush in location specified on the plans.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Excavate, remove and dispose of brush.
- Measurement: Measurement shall be one lump sum bid item.
- <u>Payment</u>: Payment shall be by the price bid for the lump sum bid item listed in the proposal.

3. Picnic Shelter w/Picnic Table

• <u>General</u>: This bid item shall include the installation of picnic shelters.

Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Grading, embankment, excavation and compaction;
- Provide and install poured in place concrete slab:
- Provide and install foundations
- Provide and install crushed top surfacing:
- Provide and install picnic table and benches;
- Provide and install picnic shelters including anchors.
- <u>Measurement</u>: Measurement shall be per each picnic shelter w/picnic table installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each picnic shelter w/picnic table installed as listed in the proposal.

4. Bike Rack

- General: This bid item shall include the installation of bike racks.
- Work Included:
 - All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;

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- Provide and install poured in place foundations;
- Provide and place bike racks.
- <u>Measurement</u>: Measurement shall be per each bike rack installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each bike rack installed as listed in the proposal.

5. Salvage and Install Bike Rack

• <u>General</u>: This bid item shall include the removal and replacement of existing bike racks.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Remove, store, transport and place salvaged bike racks;
- Provide and install poured in place foundations;
- Grading.
- <u>Measurement</u>: Measurement shall be per each bike rack salvaged and reset.
- <u>Payment</u>: Payment shall be by the unit price bid for each bike rack salvaged and reset listed in the proposal.

6. Fire Ring

- General: This bid item shall include the placement of fire rings.
- Work Included:
 - All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
 - Provide and install poured in place foundations;
 - Provide and place fire rings.
- <u>Measurement</u>: Measurement shall be per each fire ring set.
- <u>Payment</u>: Payment shall be by the unit price bid for each fire ring set listed in the proposal.

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7. Salvage and Install Fire Ring

• <u>General</u>: This bid item shall include the removal and replacement of existing fire rings.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Remove, store, transport and place salvaged fire rings;
- Grading;
- Provide and install poured in place foundations..
- <u>Measurement</u>: Measurement shall be per each fire ring removed and reset.
- <u>Payment</u>: Payment shall be by the unit price bid for each fire ring removed and reset listed in the proposal.

8. Trash Receptacle

• <u>General</u>: This bid item shall include the installation of trash receptacles.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Grading, embankment, excavation and compaction;
- Provide and install poured in place concrete slab;
- Provide and install crushed top surfacing;
- Provide and place trash receptacle including anchors.
- <u>Measurement</u>: Measurement shall be per each trash receptacle installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each trash receptacle installed as listed in the proposal.

9. Food Storage Lockers

- <u>General</u>: This bid item shall include the installation of food storage lockers.
- Work Included:

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- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Grading, embankment, excavation and compaction;
- Provide and install poured in place concrete slab;
- Provide and install crushed top surfacing;
- Provide and place food storage lockers including anchors.
- <u>Measurement</u>: Measurement shall be per each food storage locker installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each food storage locker installed as listed in the proposal.

10. Whitefish Tent Pad

- <u>General</u>: This bid item shall include the install of raised tent pads.
- Work Included:
 - All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
 - Clearing and grubbing;
 - Grading, embankment, excavation and compaction;
 - Import or export of material to on-site barrow and or wasting areas;
 - Compaction testing;
 - Survey;
 - Watering and dust control;
 - Provide and place 4x4 timbers;
 - Provide and place gravel layers;
 - Remove and replace existing topsoil.
- <u>Measurement</u>: Measurement shall be per each raised tent pad constructed.
- <u>Payment</u>: Payment shall be by the price bid per each raised tent pad constructed as listed in the proposal.

11. Wayfarers Tent Pad

• <u>General</u>: This bid item shall include the excavation, embankment, grading, and placement of 4x4 border and gravel layers for tent pads.

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• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Clearing and grubbing;
- Grading, embankment, excavation and compaction;
- Import or export of material to on-site barrow and or wasting areas;
- Compaction testing;
- Survey;
- Watering and dust control; Provide and place 4x4 timbers;
- Provide and place gravel layers;
- Remove and replace existing topsoil.
- <u>Measurement</u>: Measurement shall be per each graded tent pad constructed.
- <u>Payment</u>: Payment shall be by the price bid per each graded tent pad constructed as listed in the proposal.

12. 1" HDPE Water Piping

• <u>General</u>: This bid item shall include the installation of water supply piping.

• Work Included:

- All labor, tools, equipment, materials, royalties, and incidentals needed to complete the work as specified;
- Connection to existing pipe;
- Utility bracing/support and coordination with Utility Owners;
- Disposal of existing pipe and appurtenances as required;
- Provide compaction testing from an independent testing firm;
- Clearing and grubbing;
- Survey as required to maintain alignment and grade;
- Repair and replacement of any items not specifically mentioned elsewhere in these specifications;
- Trench excavation and backfill;
- All gaskets and appurtenances required to make pipe connections;
- Type 1 bedding;
- Type 2 bedding;
- Exploratory excavation and existing utility crossings;
- Remove spoils generated by pipe installation;

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- Provide and install pipe;
- Required testing of pipe;
- Fine grading of disturbed area.
- <u>Measurement</u>: Measurement shall be per lineal foot of pipe installed including fittings and valves. Measurement shall be to the nearest foot.
- <u>Payment</u>: Payment shall be by the unit price bid per lineal foot of pipe listed in the proposal.

13. Water Spigot

• <u>General</u>: This bid item shall include providing and installing a campground water hydrant.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Connection to pipe;
- Utility bracing/support and coordination with Utility Owners:
- Provide compaction testing from an independent testing firm:
- Clearing and grubbing;
- Survey as required to maintain alignment and grade;
- Repair and replacement of any items not specifically mentioned elsewhere in these specifications;
- Trench excavation and backfill;
- All gaskets and appurtenances required to make pipe connections:
- Type 1 bedding;
- Type 2 bedding;
- Exploratory excavation and existing utility crossings;
- Remove spoils generated by pipe installation;
- Provide and install pipe, fittings and yard hydrant;
- Provide and install sump, including fabric and RCP pipe section;
- Provide and install drain rock;
- Provide and install crushed top surfacing around installation;
- Fine grading of disturbed area.

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- <u>Measurement</u>: Measurement shall be per each water spigot installed
- <u>Payment</u>: Payment shall be by the unit price bid for each water spigot installed listed in the proposal.

14. 1" Curb Valve

• <u>General</u>: This bid item shall include providing and installing a buried curb valve

Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Connections to pipe;
- Utility bracing/support and coordination with Utility Owners;
- Disposal of existing pipe and appurtenances as required;
- Provide compaction testing from an independent testing firm;
- Clearing and grubbing;
- Survey as required to maintain alignment and grade;
- Repair and replacement of any items not specifically mentioned elsewhere in these specifications;
- Trench excavation and backfill;
- All gaskets and appurtenances required to make pipe connections;
- Type 1 bedding;
- Type 2 bedding;
- Exploratory excavation and existing utility crossings;
- Remove spoils generated by pipe installation;
- Provide and install valve;
- Required testing of valve;
- Fine grading of disturbed area.
- <u>Measurement</u>: Measurement shall be per each curb valve installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each curb valve installed listed in the proposal.

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15. 1" Stop/Drain Valve

• <u>General</u>: This bid item shall include providing and installing a buried stop/drain valve.

• Work Included:

- All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;
- Connections to pipe;
- Utility bracing/support and coordination with Utility Owners:
- Disposal of existing pipe and appurtenances as required;
- Provide compaction testing from an independent testing firm;
- Clearing and grubbing;
- Survey as required to maintain alignment and grade;
- Repair and replacement of any items not specifically mentioned elsewhere in these specifications;
- Trench excavation and backfill;
- All gaskets and appurtenances required to make pipe connections;
- Type 1 bedding;
- Type 2 bedding;
- Exploratory excavation and existing utility crossings;
- Remove spoils generated by pipe installation;
- Provide and install valve;
- Required testing of valve;
- Provide and install drain rock;
- Fine grading of disturbed area.
- <u>Measurement</u>: Measurement shall be per each stop/drain valve installed.
- <u>Payment</u>: Payment shall be by the unit price bid for each stop/drain valve installed listed in the proposal.

16. Access Trail

- <u>General</u>: This bid item shall include the construction of gravel access trail.
- Work Included:
 - All labor, tools, equipment, materials, and incidentals needed to complete the work as specified;

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- Grading, embankment, excavation and compaction;
- Import, place and compact crushed top surfacing;
- Compaction testing;
- Survey;
- Watering and dust control;
- Fine grading.
- Measurement: Measurement shall be per lineal foot of access trail constructed. Measurement shall be rounded to the nearest lineal foot.
- <u>Payment</u>: Payment shall be by the unit price bid for each lineal foot of access trail constructed listed in the proposal.

17. Topsoil, Seed and Mulch

- <u>General</u>: This bid item shall include the topsoil, seeding, and fertilizing of areas disturbed by construction.
- Work Included:
 - All labor, tools, equipment, materials, royalties, and incidentals needed to complete the work as specified;
 - Fine grading and conditioning of topsoil;
 - Provide and place seed, mulch and fertilizer;
 - Import topsoil as required;
 - Reseeding after second construction phase;
 - Maintenance of seeded area as required by specifications.
- Measurement: Measurement shall be one lump sum bid item.
- <u>Payment</u>: Payment shall be by the price bid for the lump sum bid item listed in the proposal.

18. Electrical Improvements

- <u>General</u>: This bid item shall include the installation/of all electrical components defined in the project documents.
- Work Included:
 - All labor, tools, equipment, materials, royalties, and incidentals needed to complete the work as specified;

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- Provide and install all electrical components conductors and appurtenances as defined in the electrical plans;
- Trench excavation and backfill for buried conductors and conduit;
- Permits.
- <u>Measurement</u>: Measurement shall be one lump sum bid item.
- <u>Payment</u>: Payment shall be by the price bid for the lump sum bid item listed in the proposal.

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Note:

All other work shall be performed in compliance with the Montana Public Works Specification- Sixth Edition. The Montana Public Works Specifications shall be modified to require the Contractor to provide compaction and concrete testing through an independent testing laboratory, not the Owner.

SECTION 11/150

CAMPSITE EQUIPMENT

PART 1 GENERAL

- 1. WORK INCLUDED
 - A. This section includes fire rings, bicycle racks, trash receptacles and food storage lockers.

2. SUBMITTALS

- A. The **CONTRACTOR** shall provide the following information for each item specified:
 - 1. Provide manufacturers' catalog information, material and component specifications, dimensioned drawings, weight, IGBC certification number where bear resistance is required, and installation instructions.

PART 2 PRODUCTS

1. STANDARD FIRE RINGS

- A. Fire rings shall be 24-inch inside diameter. Ring shall be constructed of 3/16-inch steel with a formed 1-inch flanged lip around the top of the ring. The ring shall be 7-inches high with 1-inch diameter draft holes spaced around the bottom perimeter.
- B. The 270 square inch grate shall be constructed of 5/8-inch steel bars around the perimeter, 3/4-inch steel bar handles and 1/2-inch steel bars for the grate surface. All steel to be A36.
- C. The grate shall be secured to the fire ring with two 3/4-inch A36 steel vertical bars that allow 7-inches of vertical grate adjustment.
- D. Grate shall be provided with two grate adjustment handles that remains outside the fire ring in all positions.
- E. Rings shall be anchored in two places with 1/2-inch diameter steel "U" anchor pins cast into cast in place concrete footings. The fire rings shall rotate around the anchor pin to allow it to be tipped up for cleaning.
- F. Fire rings shall be finished in high temperature, heat resistant, nontoxic black enamel.
- G. Fire Rings shall be as manufactured by Pilot Rock, model FA-26/7 or approved equal.

2. BICYCLE RACKS

- A. Loop style bicycle racks shall have an installed height of 36-inches from ground surface to the top of the rack and a length of 38-inches. Bicycle racks shall be constructed of 2-3/8-inch diameter schedule 40 steel pipe with 6-inch radius die formed bends creating the "U" shapes. Distance between loops is 12-inches.
- B. The vertical legs of the bike rack shall be embedded 11-1/2-inches into two 12-inch diameter concrete footings. A 9/16-inch diameter hole will be drilled into each leg to provide for the installation of a 1/2-inch diameter steel rod to secure the rack into the footing.
- C. Bicycle racks shall be designed for a maximum of 5 bicycles.
- D. Bicycle racks shall be powder coated in brown color.
- E. Bicycle Racks shall be as manufactured by Pilot Rock, model SRE/G-5 or approved equal.

3. TRASH RECEPTACLES

- A. Trash receptacles shall be top loading, high quality, bear resistant, steel construction designed for extended outdoor use in harsh environments.
- B. Trash receptacles shall include a single bag tilt out bag rack access through a door the rear of the container, designed to accommodate a 40-inch x 50-inch bag size.
- C. Trash receptacles shall be certified by the Interagency Grizzly Bear Committee (IGBC) to be bear resistant. Trash receptacles are required to be listed on IGBC certified bear resistant products list.
- D. Trash receptacles shall be treated with a UV resistant powder coating in dark green color.
- E. Small hinges, handles and striker plates shall be constructed zinc plated steel.
- F. Door hinges shall be heavy duty piano hinges constructed with stainless steel.
- G. The latch shall be operable with a single hand and automatically secure the door upon closing.
- H. Trash receptacles shall be Bear Saver model BE1-P or approved equal.

4. FOOD STORAGE LOCKERS

A. Food storage lockers shall be high quality, bear resistant, two compartment, steel construction designed for extended outdoor use in harsh environments with a nominal total capacity of 15 cf per compartment. Each compartment will have a separate front

facing access door.

- B. Food storage lockers shall be certified by the Interagency Grizzly Bear Committee (IGBC) to be bear resistant. Food storage lockers are required to be listed on IGBC certified bear resistant products list.
- C. Food storage lockers shall be treated with a UV resistant powder coating in a brown color.
- D. Handles and striker plates shall be constructed zinc plated steel.
- E. Door hinges shall be heavy duty piano hinges constructed with stainless steel.
- F. Latches shall be operable with a single hand and automatically secure the door upon closing.
- G. Food storage lockers shall be Bear Saver model FS30-DFL or approved equal.

PART 3 EXECUTION

- 1. GENERAL
 - A. Install all equipment in compliance with manufacturer's recommendation and the project drawings.

END OF SECTION 11/150

SECTION 11/170

PREMANUFACTURED PICNIC SHELTER

PART 1 GENERAL

1. WORK INCLUDED

A. This section includes the construction of a 10-foot x 12-foot premanufactured picnic shelter with gable roof.

2. SUBMITTALS

- A. The **CONTRACTOR** shall provide the following information for each item specified:
 - 1. Provide manufacturers' catalog information, material and component specifications, dimensioned drawings, structural calculations, and installation instructions.
 - 2. Building Codes Submittal.

PART 2 PRODUCTS

1. GENERAL

- A. Picnic shelters shall be premanfuctured with all structural steel elements, roofing, hardware, and picnic table materials provided by a single company that specializes in the manufacture of picnic shelters. Concrete and concrete reinforcement will be provided separately.
- B. The Contractor is responsible for obtaining a building permit for the picnic structure through the State of Montana Building Codes Bureau. The structure design is required to comply with the applicable building codes.
- C. Picnic Shelters shall be premanufactured to minimize field labor. Welding during field erection is not allowed.
- D. Picnic Shelters shall be Poligon SSG 10x12 with ADA Compliant Plastic Lumber Table and Seating or approved equal.

2. DESIGN REQUIREMENTS

- A. Ground snow load for Whitefish Lake State Park shall be 67 psf, ground snow load for Wayfarers State Park shall be 69 psf.
- B. Basic wind speed is 130 mph.

C. Seismic Zone is 3

3. DIMENSIONAL REQUIREMENTS

- A. Roof shall be 10-foot wide by 12-foot long.
- B. Roof Slope shall be 4:12.
- C. Minimum Clearance height from floor to ceiling is 7-feet 6-inches.

4. FOUNDATIONS

- A. Foundations shall be designed by the Manufacturer for a fixed column base plate with anchor bolts.
- B. Foundations shall be designed to the minimum values identified in the building code. No soil data will be provided.
- C. Anchor bolts shall be provided by the Manufacturer.

5. STEEL FRAMING

- A. Columns, vertical supports, and roof beams shall be hollow structural steel tube, minimum ASTM 500 grade B.
- B. Provide electrical openings as required by plans. Openings shall be made in factory.

6. INTEGRATED ADA TABLE AND BENCHES

- A. Table and benches will be constructed of steel section and recycled plastic lumber slats.
- B. Slats shall be manufactured of pre-washed-pre-sorted HDPE. Lumber shall be molded into a single piece per the specified size. Lumber shall include a UV additive to prevent deterioration. HDPE shall be manufactured of no less than 95% recycled materials.
- C. Steel seating frame shall be A36 steel minimum, coated as specified in finish section of this specification.

7. ROOFING

- A. Roofing shall be 24 gauge ribbed galvalume steel sheets, with 1-3/16-inch rib height and 12-inch rib spacing.
- B. Roofing surface shall be coated with Kynar 500 or approved equal.
- C. Roof color shall be Tudor Brown, ceiling color shall be white.
- D. Metal roofing trim shall be coated to match the roof panels and shall be factory made 26 gauge steel.

E. Trim shall include ridge caps, eave trim, splice channels, rake trim, and corner trim.

8. CONNECTIONS

- A. Anchor bolts shall be ASTM F1554 (Grade 36).
- B. Structural fasteners shall be zinc plated ASTM A325 high strength bolts and A563 high strength nuts.
- C. All welds shall be factory made and shall be free of burrs and inconsistencies.

9. FINISHES

- A. Steel picnic shelter framing and steel picnic table framing shall be coated with the following process:
 - 1. Steel shall be shot blasted to SSPC-SP10 near white blast cleaning.
 - 2. Parts shall be pretreated in an iron phosphate or equal washer.
 - 3. Epoxy primer powder coat shall be applied.
 - 4. A powder coat top primer shall be applied.
- B. Finish system shall be tested to meet the following criteria:
 - 1. Humidity resistance per ASTM D2247-02 to 5,000 hours with no loss of adhesion or blistering.
 - 2. Color/UV resistance per ASTM G154-04 to 2,000 hours exposure, alternate cycles with results of no chalking, 75% color retention, color variation minimum 3.0 E CIE formula (before and after 2,000 hours exposure).
- C. Exposed fasteners for frame shall be powder coated to match structure.
- D. Steel framing color shall be surrey beige.

PART 3 EXECUTION

1. GENERAL

- A. Install all equipment in compliance with manufacturer's recommendation and the project drawings.
- B. No field slotting or opening of holes shall be allowed to accept misplaced anchor bolts or fasteners.

END OF SECTION 11/170

SECTION 15/200

PLUMBING

PART 1 GENERAL

1. WORK INCLUDED

- A. This section covers the work necessary to furnish and install piping, fixtures, appliances, equipment, and appurtenances for complete and functional plumbing systems as indicated in the Drawings and specified herein.
- B. Work included in this section is as follows:
 - 1. Piping and valves for both indoor and outdoor buried service.

2. GENERAL

- A. The drawings do not show all details of all piping systems, and instead only portray the functionality required. The **CONTRACTOR** shall provide all accessories, adapters, appurtenances and supports to achieve a complete and functional installation. The **CONTRACTOR** shall verify all piping routings and locating dimensions shown for conflicts with other piping or utilities, and shall provide any offsets required to achieve clearance at no additional cost to the **OWNER**. In the event changes to the locations of equipment or piping shown are necessary, the **CONTRACTOR** shall submit such changes in writing to the **ENGINEER** before proceeding with such changes.
- B. All fixtures and appliances shall be installed in complete accordance with the manufacturer's recommendations and requirements, including structural support and venting.
- C. Manufacturers' references are included herein for reference and to establish the required level of quality; "or equal" products may be proposed subject to the requirements for Submittal review.

3. CODES, PERMITS AND COMPLIANCE

- A. Plumbing under these Specifications shall conform to all requirements of the current editions of the UPC, IBC, UFC, DEQ Circulars and all other codes, standards and ordinances applicable to work. In event of conflicts between these Specifications and applicable codes or standards, the codes and standards shall govern.
- B. All piping, fixtures, and accessories shall be installed in strict accordance with the laws and regulations of the State of Montana and Flathead County.
- C. Any permits legally required for the work under these Specifications shall be the responsibility of the **CONTRACTOR** to obtain. Costs of such permits and scheduling

of any inspections required in conjunction with such permits or associated requirements shall be the responsibility of the **CONTRACTOR**.

D. Completed piping systems shall be tested by the **CONTRACTOR** in accordance with all applicable codes and standards <u>before</u> charging such piping.

4. SUBMITTALS

- A. The **CONTRACTOR** shall provide the following information:
 - 1. Fixtures and Appliances Provide manufacturers' catalog information, photographs, material and component specifications, fully dimensioned drawings, weight, support requirements, storage and installation instructions, and operating manual.
 - 2. Exposed Piping Systems Provide manufacturers' catalog information, material specifications, dimensions, and ratings.
 - 3. Pipe Fittings and Appurtenances Provide manufacturers' catalog information, material specifications, dimensions and ratings.
 - 4. Buried Piping Systems Provide manufacturers' catalog information, material specifications, dimensions, and ratings.
 - 5. Pipe Supports Provide manufacturers' catalog information, material specifications, dimensions, load ratings, recommended spacing, and types and arrangement of fasteners, including substrate requirements.

PART 2 PRODUCTS

1. GENERAL

A. Like items of material provided under these Specifications shall be the product of one manufacturer.

2. HDPE PIPE AND FITTINGS FOR BURIED SERVICE

- A. High density polyethylene pipe (HDPE) for buried domestic water well supply and yard piping shall be NSF listed. HDPE pipe shall be iron pipe size with 200 psi pressure rating at 73.4 degrees F, with a minimum hydrostatic burst pressure of 630 psi. Pipe shall have an SDR of 9, based on inside diameter controlled dimensions. Pipe shall meet ASTM D2239 and AWWA C901. HPDE pipe shall be formulated from 3408 polyethylene resin, and extruded. The exterior of HDPE pipe shall be permanently marked with size, SDR, operating pressure, date of manufacture, and NSF logo. Pipe shall have a 25-year warranty from the manufacturer, and shall be *Endot Industries Endopoly PE 3408*, or **ENGINEER** approved equal.
- B. Fittings for buried HDPE piping shall be gray Schedule 80 PVC with insert-by-insert or

insert-by-NPT ends. Each insert connection shall each be secured with dual ½" minimum width stainless steel hose clamps meeting pipe and fitting manufacturers' recommendations.

3. CURB VALVES – WATER SERVICE

- A. Curb valve for buried water service shall be brass ball valves with compression connections suitable for use with HDPE pipe and Minneapolis pattern top threads. Valves shall be rated 300-pound WOG, and shall meet the requirements of AWWA C800. Valves shall be *Mueller B-25211 ball curb valve*, or **ENGINEER** approved equal.
- B. Curb boxes shall be cast iron construction, Minneapolis pattern, and allow height adjustment between 78 and 66-inches. The curb box shall include a lid with plug. Curb boxes shall be *Mueller H-10300* or ENGINEER approved equal. Two keys will be provided to the Owner for opening and closing the valves for each State Park.

4. STOP/DRAIN VALVES – WATER SERVICE

- A. Stop/Drain valves for buried water service shall be brass ball valves with compression connections suitable for use with HDPE pipe and Minneapolis pattern top threads. Valves shall be rated 300-pound WOG, and shall meet the requirements of AWWA C800. Valves shall be *Mueller B-10288 drain valve*, or **ENGINEER** approved equal.
- B. Curb boxes shall be cast iron construction, Minneapolis pattern, and allow height adjustment between 78 and 66-inches. The curb box shall include a lid with plug. Curb boxes shall be *Mueller H-10300* or ENGINEER approved equal.

5. YARD HYDRANTS

A. Yard hydrants shall be post-type hydrants with operating lever and riser suitable for 6-foot bury depth. The hydrant will include a separate diverter spout and hose connection with a double check backflow preventor. Hydrants shall include a reservoir to store water below the frost line between uses to prevent freezing. Pipe connection shall be 1-inch female NPT. Hydrant shall be rated for a maximum operating pressure of 100 psi. Yard hydrants shall be *Woodford Model S3*, or **ENGINEER** approved equal.

PART 3 EXECUTION

1. GENERAL

- A. All plumbing and installation of piping, appurtenances, and fixtures shall fully conform to the current edition of the *Uniform Plumbing Code* (UPC), and all applicable state and local regulations. All work shall be approved by the State Plumbing Inspector.
- B. Drawings do not attempt to show the exact details of all piping. No extra payment will be allowed for fittings, adapters, appurtenances, clearances or offsets required to complete the Work. Changes in locations of equipment or piping, contemplated by the **CONTRACTOR**, must be submitted to the **ENGINEER** in writing, and cannot be executed without the **ENGINEER'S** approval. All work shall be completed to provide a

fully functional installation as shown and specified.

2. PIPING

- A. All piping intended to carry potable water shall be disinfected before placing into service. Disinfection procedures shall conform to AWWA C651.
- B. All piping systems installed under this section do not require painting or coating.
- C. Buried HDPE yard piping and fittings for domestic water service shall be installed in accordance with AWWA C901 and ASTM D2774. A minimum of 6-inch of pipe bedding shall be placed on all sides of buried HDPE hard piping.

3. YARD HYDRANTS

A. Yard hydrants shall be plumbed and adjusted to 36 ½-inch height above grade. Yard hydrant connections shall utilize insert-by-IPT (male) adapters to connect to HDPE yard piping.

4. TESTING

- A. Completed cold water piping, including fixture connections shall be tested and demonstrated to be leak free by the **CONTRACTOR** by charging with water and maintaining 60 psi pressure for one hour, in the presence of the **ENGINEER**. Any leaks or defects shown shall be promptly remedied by the **CONTRACTOR**.
- B. Other tests of completed piping as prescribed by the UPC shall also fully apply, and shall be conducted in the presence of the **ENGINEER**.

END OF SECTION 15/200